Enterprise Architecture Standard

Server Virtualization Software Standard
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Introduction

The need for virtualization software has many business drivers. The business drivers identified by the Office of the Chief Information Officer (OCIO) include:

- Data center consolidation;
- Reduction in the number of physical servers in the data centers;
- Reduction in energy utilization by servers;
- Faster server deployment and provisioning;
- Standardization of server, operating system, and virtualization software environments, and;
- Overall reductions in capital and operating expenses.

The virtualization environment has been selected on the premise that management tools and integration with existing infrastructure is properly supported for the State server environments.

Standard Requirements

The standard virtualization operating environment for the State includes the following environments from VMware and Microsoft

- VMware Infrastructure Enterprise
- VMware ESXi
- VMWare Server
- VMware vSphere
- VMware vCenter Server:
- Microsoft Windows 2008 Hyper-V
- Microsoft System Center Virtual Machine Manager 2008

Authorities

Section 11545 of the Government Code (b) The duties of the State Chief Information Officer shall include, but are not limited to, all of the following: (2) Establishing and enforcing state information technology strategic plans, polices, standards, and enterprise architecture.

Implementation

The virtualization standard environments and associated tools are to be used for the creation of planned X86 based virtual environments. As with the implementation of any physical server, all aspects of security and protection of data must be adhered to.

Changes and variances to this EA Standard may be proposed using the Compliance Component Tools in Section 3.2.2 of the Enterprise Architecture Developers Guide, and by following the EA Compliance Package submittal instructions in Section 5.2. Additional detail is also included in Section 4.1 within the "Compliance Components Modification" sub-section. The Enterprise Architecture Developers Guide is available in Section 58A of the Statewide Information Management Manual.